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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/936,279	01/17/2002	Hannu Korhonen	3397-105PUS	3927

7590 05/27/2004
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EXAMINER

HALPERN, MARK

ART UNIT PAPER NUMBER

1731

DATE MAILED: 05/27/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.	Applicant(s)	
09/936,279	KORHONEN ET AL.	
Examiner	Art Unit	
Mark Halpern	1731	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 47-127 is/are pending in the application.
- 4a) Of the above claim(s) See Continuation Sheet is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 47,49-51,53-61,65,66,76-78,80,81,84,85,87,90,94,96-110,113,121 and 127 is/are rejected.
- 7) ☒ Claim(s) 69,70,73,74,112 and 114 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. ____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 1/17/02Karvinen in.
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: ____

Continuation of Disposition of Claims: Claims withdrawn from consideration are 8,48,52,62,64,71,72,79,82,83,88,89,91-93,111,115-120 and 123-1266.

DETAILED ACTION

Election/Restrictions

1) Applicant's election without traverse of invention of species wherein the web treatment substance is applied to the transfer belt, drawn on claims 47, 49-51, 53-61, 65-66, 69-70, 72-78, 80-81, 84-85, 87, 90, 94, 96-110, 112-114, 121, 127, in Paper received 5/10/2004, is acknowledged.

Claims 48, 52, 62, 64, 71-72, 79, 82-83, 86, 88-89, 91-93, 95, 111, 115-120, 123-126, are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2) Claims 59, 81, 87, 94, are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 59 recites the limitation "the web transfer substance" in line 1. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3) Claims 47, 49, 51, 53-55, 57-58, 76, 97-98, 100, 102-104, 106-108, 113, 127, are rejected under 35 U.S.C. 102(b) as being anticipated by Karvinen (4,931,143).

Karvinen discloses a web W formed on wire 10, which is either a fourdrinier wire or the carrying wire of a twin wire former. The web is detached by pick-up roll 22 onto wire 20 and then through a nip N₁ formed between roll 24 of upper fabric 20 and roll 25 of lower fabric 40. The web proceeds onto lower fabric 50 and then onto first drying cylinder roll 63 with the help of suction roll 62 of wire 60. The lower fabric 50 is a transfer fabric or transfer belt and is impervious. The lower fabric 50 is in an endless loop formation and within said loop contain impervious belt 110 also in an endless loop formation. Both endless lower loops 50 and 110 are in a nip formation N_p with upper fabric 30 wherein the web is traveling through as it is being dewatered. The force applied to the web W at nip N_p is exerted by upper roll 101 located within endless loop 30 and lower press shoe 108 located within endless loops 50 and 110 (col. 4, line 41 to col. 6, line 65, col. 7, lines 40-56, and Figure).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4) Claims 50, are rejected under 35 U.S.C. 103(a) as being unpatentable over Karvinen. Karvinen is silent on the solids content of the web while the web is subjected to a surface treatment, however, it would have been obvious to one skilled in the art at the time the invention was made, that the solids content of the web would be in any range including the claimed range, since the web steam treatment between nips N_1 and N_2 and the force applied at nip N_p could be varied to achieved the claimed solids conditions of the web.

5) Claims 56, 59-61, 65-66, 77-78, 80-81, 84-85, 87, 90, 94, 96, 99, 101, 105, 109-110, 121, are rejected under 35 U.S.C. 103(a) as being unpatentable over Karvinen in view of Schiel (5,256,257).

Claims 56, 77-78, 80-81, 84-85, 105, 121: Karvinen is applied as above for claim 47, Karvinen fails to disclose that water is removed from the web by a non-contacting dryer prior to the first dryer cylinder. Schiel discloses an impervious transfer belt 8 on which a web travels and is heated by a heating device 25 using radiation and or hot air to heat and pre-dry the web (Schiel, col. 4, line 44 to col. 5, line 68, and Figure 1). It would have been obvious, to one skilled in the art at the time the invention was made, to combine the teachings of Karvinen and Schiel, because such a combination would

reduce the drying section in the design of Karvinen, by the preheating of the web as disclosed by Schiel.

Claims 59-61, 65-66, 87, 90, 94, 96, 99, 109-110: a spray applicator 24 and brush roll 23 are utilized to provide fluid treatment to transfer belt 8, which then touches the web as the belt travels (Schiel, col. 5, lines 50-60).

Claims 101: a calender arrangement is shown in Figure 1 of Schiel.

Allowable Subject Matter

6) Claims 69-70, 73-74, 112, 114, are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The primary reason for indicating allowable subject matter, is that the cited prior art does not show: a method for treating web that includes treating the web in a calibrating press prior to passing the web to the first drying cylinder (claims 69); an apparatus for paper making that includes a calibrating press located in front of a drying cylinder (claim 112).

Conclusion

7) Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark Halpern whose telephone number is 571-272-1190. The examiner can normally be reached on Monday to Friday.

Art Unit: 1731

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven Griffin can be reached on 571-272-1189. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Mark Halpern
Patent Examiner
Art Unit 1731